ELSEVIER

Protein Structure & Molecular Enzymology

Vol. 1295, 1996

BBA Biochimica et Biophysica Acta

Cumulative Contents

Information for Contributors *vii*

Short sequence-paper

cDNA sequence analysis and expression of cardiotoxin V and a new cardiotoxin VII from *Naja naja atra* (Taiwan cobra)
L.-S. Chang, J. Lin and P.-F. Wu (Taiwan, ROC) 1

Regular papers

Physical properties of dinitrosyl iron complexes with thiol-containing ligands in relation with their vasodilator activity
A.F. Vanin, R.A. Stukan and E.B. Manukhina (Russia) 5

Identification of major rye secalins as coeliac immunoreactive proteins
A. Rocher, M. Calero, F. Soriano and E. Méndez (Spain) 13

Purification and sequencing of multiple forms of *Brassica napus* seed napin small chains that are calmodulin antagonists and substrates for plant calcium-dependent protein kinase
G.M. Neumann, R. Condron, I. Thomas and G.M. Polya (Australia) 23

Purification and sequencing of multiple forms of *Brassica napus* seed napin large chains that are calmodulin antagonists and substrates for plant calcium-dependent protein kinase
G.M. Neumann, R. Condron, I. Thomas and G.M. Polya (Australia) 34

2D-NMR studies of the effects of axial substitution on two helices in horse cytochrome *c*
W. Shao, G. Liu, X. Huang, H. Wu and W. Tang (People's Republic of China) 44

Influence of glycerol on the structure and stability of ferric horse heart myoglobin: a SAXS and circular dichroism study
M. Barteri, M.C. Gaudiano and R. Santucci (Italy) 51

Two amine oxidases from *Aspergillus niger* AKU 3302 contain topa quinone as the cofactor: unusual cofactor link to the glutamyl residue occurs only at one of the enzymes
I. Frébort, P. Peč, L. Luhová, H. Toyama, K. Matsushita, S. Hirota, T. Kitagawa, T. Ueno, Y. Asano, Y. Kato and O. Adachi (Japan, Czech Republic) 59

Kinetics of appearance of four hemorphins from bovine hemoglobin peptic hydrolysates by HPLC coupled with photodiode array detection
Q. Zhao, F. Sannier and J.M. Piot (France) 73

Escherichia coli aminodeoxychorismate synthase: analysis of pabB mutations affecting catalysis and subunit association
E.A. Rayl, J.M. Green and B.P. Nichols (USA) 81

In vitro activation of a 60–70 kDa histone H4 protein kinase from neutrophils by limited proteolysis
R. Liu, P. Leavis and J.A. Badwey (USA) 89

A proteinase inhibitor from egg yolk of hen is an ovoinhibitor analog
Y. Sugimoto, T. Kusakabe, S. Nagaoka, T. Nirasawa, K. Tatsuguchi, M. Fujii, T. Aoki and K. Koga (Japan) 96

Characterisation of the complex of plasminogen activator inhibitor type 1 with tissue-type plasminogen activator by mass spectrometry and size-exclusion chromatography
M. Strömqvist, K.-E. Karlsson, P. Björquist, J.-O. Andersson, M. Byström, L. Hansson, T. Johansson and J. Deinum (Sweden) 103

Calorimetric studies on solid α-chymotrypsin preparations in air and in organic solvents
A. Öste-Triantafyllou, E. Wehtje, P. Adlercreutz and B. Mattiasson (Sweden) 110

Information for Contributors *v*

Short sequence-paper

A cDNA clone from *Arabidopsis thaliana* encoding plastidic ferredoxin:sulfite reductase
A. Brühl, T. Haverkamp, G. Gisselmann and J.D. Schwenn (Germany) 119

Regular papers

Kinetic and modelling studies of NAD^+ and poly(ethylene glycol)-bound NAD^+ in horse liver alcohol dehydrogenase
S.A.M. Vanhommerig, L.A.Æ. Sluyterman and E.M. Meijer (The Netherlands) 125

Calcium-induced conformational change in cardiac troponin C studied by fluorescence probes attached to Cys-84
W.-J. Dong and H.C. Cheung (USA) 139

Characterization of site I on human serum albumin: concept about the structure of a drug binding site
K. Yamasaki, T. Maruyama, U. Kragh-Hansen and M. Otagiri (Japan, Denmark) 147

Characterization and enzyme activity of argininosuccinate lyase/δ-crystallin of the embryonic duck lens
J. Piatigorsky and J. Horwitz (USA) 158

Ligation of the iron in the heme-heme oxygenase complex: X-ray absorption, electronic absorption and magnetic circular dichroism studies
B.K. Hawkins, A. Wilks, L.S. Powers, P.R. Ortiz de Montellano and J.H. Dawson (USA) 165

Factor J, an inhibitor of the classical and alternative complement pathway, does not inhibit esterolysis by factor D
C. González-Rubio, R. González-Muñiz, M.A. Jiménez-Clavero, G. Fontán and M. López-Trascasa (Spain) 174

N-peptidyl, *O*-acyl hydroxamates: comparison of the selective inhibition of serine and cysteine proteinases
H.-U. Demuth, A. Schierhorn, P. Bryan, R. Höfke, H. Kirschke and D. Brömme (Germany, USA) 179

Phosphoserine aminotransferase from *Bacillus circulans* subsp. *alkalophilus*: purification, gene cloning and sequencing
N. Battchikova, J.-P. Himanen, M. Ahjolahti and T. Korpela (Finland) 187

Structural consequences of neopullulanase mutations
U. Lamminmäki and M. Vihinen (Sweden, Finland) 195

The influence of conserved aromatic residues on the electron transfer reactivity of 2[4Fe-4S] ferredoxins
I. Quinkal, P. Kyritsis, T. Kohzuma, S.-C. Im, A.G. Sykes and J.-M. Moulis (France, UK) 201

Iron ligand recognition by monomeric hemoglobins
J.J. Stephanos, S.A. Farina and A.W. Addison (Egypt, USA) 209

Reversible inhibition and irreversible inactivation of catalase in presence of hydrogen peroxide
O.M. Lardinois, M.M. Mestdagh and P.G. Rouxhet (Belgium) 222

Sequential unfolding of adenylate kinase during denaturation by guanidine hydrochloride
Y.-L. Zhang, J.-M. Zhou and C.-L. Tsou (China) 239

Redox reactivity of the type 1 copper protein amicyanin from *Thiobacillus versutus* with its physiological partner cytochrome c_{550} and interprotein cross-reaction studies
P. Kyritsis, T. Kohzuma and A.G. Sykes (UK) 245

Cumulative Contents, Vol. 1295 253

Author Index 255